

*LEPILIN, V.N.*USSR/Processes and Equipment for Chemical Industries
Processes and Apparatus for Chemical Technology

K-1

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 14185

Author : Romankov P.G., Lepilin V.N., Nemet Ye.S.

Title : Adsorption in Suspension Layer

Orig Pub : Khim. nauka i prom-st', 1956, 1, No 3, 317-324

Abstract : By methods of theory of similarity a set of criteria was derived which define kinetics of process of sorption from flow of mixture during period of constant rate of sorption (prior to passage) and period of dropping rate of sorption (after passage). To determine nature of functional correlation between criteria, experimentally investigated was adsorption, under dynamic conditions, of gasoline vapor from air (initial concentration $C_0 = 4-30$ mg/liter). Experiments were conducted with activated carbon of grades BAU, AG, AR with particle diameter 0.5-3.5 mm in columns 32-125 mm diameter and initial height of layer

Card 1/2

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Canad. Tech. Sec

KOZLOV, T.I., prepod.; KULINENKOVA, Ye.Ya., prepod.; KUROCHKINA, M.I.,
prepod.; LEFILIN, V.N.; MEDVEDEV, A.A.; MOSKOV, A.A.
OVECHKIN, I.Ye.; PAVLUSHENKO, I.S.; PLYUSHKIN, S.A.;
RASHKOVSKAYA, N.B.; ROMANKOV, P.G.; FROLOV, V.F.; YABLONSKIY,
P.A.;

[Manual on practical work in the laboratory on the processes
and apparatus of chemical technology] Rukovodstvo k prakti-
cheskim zaniatiiam v laboratorii po protsessam i apparatam
khimicheskoi tekhnologii. Izd.2., ispr. i dop. Moskva,
(MIRA 18:2)
Khimia, 1964. 243 p.

ROMANKOV, P.G.; LEPILIN, V.N.

Certain problems in the adsorption dynamics in a suspended layer of the
adsorbent. Zhur. prikl. khim. 29 no.4:548-553 Ap '56. (MLRA 9:11)
(Adsorption)

Lepilin, V.N.

The dynamics of adsorption in a fluidized layer of adsorbent / I. P. G. Romankov and V. N. Lepilin. J. Appl. Chem. U.S.S.R. 29, 609-611 (1956) (English translation). -- See C.A. 50, 14277f. R.M.P.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929320006-0"

SOV/124-58-8-8996
Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 98 (USSR)

AUTHORS: Romankov, P.G., Lepilin, V.N., Nemet, Ye. S.

TITLE: Some Aspects of the Aerodynamics of a Suspended Layer Under Conditions Obtaining in Narrow Conduits (Nekotoryye voprosy aerodinamiki vzveshennogo sloya v usloviyakh uzkikh trub)

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1957, Nr 39, pp 28-33

ABSTRACT: Glass conduits 32, 49, and 52 mm in diameter are used to investigate the process of formation of a suspended layer. The suspended layer here consists of irregularly shaped particles of low mechanical strength. Particle diameters varied from 0.5 to 3.5 mm, the initial height of the layer from 50 to 500 mm, and the densities from 0.482 to 1.08 g/cm³. Air is blown through the layer. The authors show that prior to formation of a pseudofluidized layer the resistance to a flow increases with increasing flow velocity. In the velocity range delimited, at the low end, by the velocity at which the particles just begin to be lifted into suspension and, at the high end, by the velocity at which all of them have passed into suspension, the resistance exerted by the conduit decreases somewhat, but beyond

SOV/124-58-8-8996

Some Aspects of the Aerodynamics of a Suspended Layer (cont.)

that velocity at which all the particles have passed into suspension it becomes constant, remaining equal to the weight of the suspended layer. On the basis of an analysis of their experimental data the authors evolve a formula for determining the head losses in this range of flow velocities

$$\Delta p = 1.02 \frac{G}{S},$$

wherein Δp is the head loss in the layer, G the weight of the layer, and S the cross sectional area of the conduit. The fact that the numerical coefficient is not equal to unity is attributed by the authors to energy losses occasioned by the overcoming of friction. When a certain critical velocity is reached, the granular substance of the particles starts to be eroded and carried off---which produces a sharp drop in the resistance. A detailed description is given of the peculiarities of the motion of the suspended material. In this connection, it is found that the particles travel through the layer in a chaotic fashion and that, as reported by other investigators, too, the layer pulsates and funnels form within it. Bibliography: 9 references.

Ye. M. Minskiy

LEPILIN, V.N.; RASHKOVSKAYA, N.B.; ROMANKOV, P.G.

Some aspects of adsorption and desorption in a fluidized bed of
the adsorbent. Zhur. prikl. khim. 33 no.12;2664-2671 D '60.

(MIRA 14:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Adsorption) (Desorption)

ROMANKOV, P.G.; RASHKOVSKAYA, N.B.; LEPILIN, V.N.

Fluidized bed. Izv. vys. ucheb. zav.; khim. i khim. tekhn.
4 no. 2:298-302 '61. (MIRA 14:5)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.
Kafedra protsessov i apparatov.
(Fluidization)

FLOKK, V.; LEPILIN, V.N.; ROMANOV, P.G.

Kinetics of the adsorption process in a countercurrent column
with a fluid-adsorbent bed. Zhur.prikl.khim. 35 no.10:2241-
2246 O '62. (MIRA 15:12)

(Adsorption) (Fluidization)

FLOKK, V.; LEPILIN, V.N.; ROMANKOV, P.G..

Kinetics of the adsorption process in countercurrent column with a
fluidized bed of adsorbent. Zhur.prikl.khim. 36 no.2:315-322 F '63.
(MIRA 16:3)

(Adsorption)

(Fluidization)

LEPILIN, Yu.P.

Modernization of the ZF-01 gear-cutting machine. Transp. stroi.
12 no.12:49 D '62. (MIRA 16:1)

1. Trest Ufimtransstroy.
(Gear-cutting machines)

LEPILINA, M.I.

Certain characteristics of physical development of children who weigh more than 4,000 g at birth. Pediatrilia no.3:73-74 My-Je '53. (MLB 6:8)

1. Kafedra akusherstva i ginekologii Kuybyshevskogo meditsinskogo instituta.
(Infants)

LEPI DINA, R.G.

Copper plating silver mirror. J. G. Leplina and M. P. Belyayev. Lektor Prav, 15, No. 1 (1956). Referat.
Year. Atom. 1956, Akad. No. 7/28. For elimination of
the edge effect appearing during coating mirrors and the
peeling of both Cu and Ag films asept, with it, the use of
addit. cathode screen on which the excess of force lies
are cond. is recommended. This allows more uniform
coating of the object with Cu. N. Vasil'ev

3
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84

LEPILINA, R.G., kandidat tekhnicheskikh nauk; KARTASHEV, V.G., laureat
Stalin'skoy premii, inzhener

Preparation of glass surfaces for liquid gold compound roasting.
"eg.prom.15 no.8:26-28 Ag '55. (MIRA 8:10)
(Gold--Metallurgy) (Glass blowing and working)

LEPILKIN, A., prof.

Consolidating ties between schools and industries. Mias.ind.SSSR
31 no.2:33-34 '60. (MIRA 13:8)

1. Direktor Moskovskogo tekhnologicheskogo instituta myasnoy i
molochnoy promyshlennosti.
(Moscow--Food industry)
(Food industry--Study and teaching)

LEPILKIN, A., prof.

Thirtieth anniversary of the Moscow Technological Institute of
the Meat and Milk Industries. Mias. Ind. SSSR 32 no.3:7-9 '61.
(MIRA 14:7)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy
promyshlennosti.
(Moscow--Universities and colleges)
(Moscow--Meat industry)

LEPILKIN, A., prof.; NOZDRIN, S.

Thermal insulation of machinery of the meat industry. Mias.
ind. SSSR 32 no.3:54-57 '61. (MIRA 14:7)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy
promyshlennosti.
(Meat industry—Equipment and supplies)
(Insulations (Heat))

LEPILKIN, A., prof.; NOZDRIN, S., inzh.; IZOTULOV, R., inzh.

Utilization of foam in slices for lowering temperature losses
in meat combines. Russ. Ind. SSSR 32 no.5:49-51 '61.

(V.I.A. 14:10)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy
promyshlennosti (for Lepilkin, Nozdrin).
2. Moskovskiy universitet (for Izotulov).
(Engineering materials)
(Packing houses--Equipment and supplies)

LEPILKIN, A., prof.

Training of engineers and science specialists. Mias.ind. SSSR 33 [i.e.34]
no.2:12-13 '63. (MIA 16:4)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy
promyshlennosti.
(Meat industry--Study and teaching)

LEPILINA, R.G., kand. tekhn. nauk.

Antimony ruby colors. Leg. prom. 16 no. 8:27-28 Ag '56. (MIRA 10:12)
(Antimony sulfides) (Glass manufacture—Equipment and supplies)

LEPILKIN, A.M. (Moskva)

Vortex theory of the rotor and mutual interference of propellers.
Izv. AN SSSR. Mekh. i mashinostr. no. 5:77-107 S-0 '63. (MIRA 16:12)

LEPILKIN, A.N.

Improvement of the quality of white sugar. A. N.
Lepilkin. Sugar (U. S. S. R.) 15, No. 3, 26-8 (1937);
Chem. Zentr. 1938, I, 3276. Improvement by reduction of
moisture content, by better drying methods and by
other measures is discussed. M. G. Moore

ASTM-SEA METALLURGICAL LITERATURE CLASSIFICATION

LEPIKIN, A.N.

Determination of the heat transmission of sugar solutions. A. N. Lepikin. Trans. Central Inst. Research Inst. Sugar Ind., U.S.S.R. No. 21, Tech. and Chem. of Sugar Manufact., 1906 (1939). - Methods and formulas are
V. E. Barkov

APPENDIX METALLURGICAL LITERATURE CLASSIFICATION

EDITION STANDARDED

1930-1940

1940-1950

1950-1960

1960-1970

1970-1980

1980-1990

1990-2000

2000-2010

2010-2020

2020-2030

2030-2040

2040-2050

2050-2060

2060-2070

2070-2080

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2090-2100

2100-2110

2110-2120

2120-2130

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4450-4460

4

6/61/62/63/64/65/66
B168/B186

66,55,60

AUTHORS: Lepilin, A. N., Nozirin, S. I.

TITLE: Investigations on the thermo-physical properties of foam plastic by a non-steady method

PERIODICAL: Referativnyj zhurnal. Khimiya, no. 13, 1962, 505; abstract 1962 (Izv. vyssh. uchen. zavedeniy. Fizich. tekhnol., no. 5, 1961, 12, - 130)

TEXT: A method is proposed for determining the heat-insulating properties of foam plastics used in industry as heat insulators. The method consists of determining the thermo-physical characteristics of the material for given moisture content and is based on a solution of the problem of the distribution of temperature field in two infinite sheets in mutual contact. A method is given for evaluating the experimental data and for determining the thermal coefficients for various types of foam plastic. An experimental apparatus is described. [Abstracter's note: Complete translation.]

Card 1/1

LEPILKIN, A. N.

Thermodynamics

Heat transfer and hydraulic resistance in heated molecular solutions.
Miss. Ind. SSSR 23 no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1956, Uncl.
2

LEPILKIN, A.N.

I-28

USSR/Chemical Technology - Chemical Products and Their
Application. Food Industry

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 13827

Author : Lepilkin A.N.
Inst : Moscow Technological Institute of Meat and Dairy Industry
Title : Determination of Thermal Coefficients of Colloidal
Materials

Orig Pub : Tr. Mosk. tekhnol. in-ta myas, i molochn. prom-sti, 1956,
No 6, 49-57

Abstract : Presented are calculations of temperature distribution
in depth, in a system consisting of two inorganic plates
having different thermal coefficients (heat conductivity,
thermal diffusivity and thermal capacity). Described
is an instrument for determination of thermal coeffi-
cients, designed on taking into account the conditions
of resolution of the applied problem. Described is the
procedure of computation of thermal coefficients in the

Card 1/2

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A

USSR/General Problem. Methodology. History. Scientific A
Institutions and Conferences. Instruction.
Questions Concerning Bibliography and Scien-
tific Documentation

Abs Jour : Kef Zhur-Khimiya, No 3, 1958, 6843
Author : A. Lepilkin
Inst : Moscow Technological Institute of Meat and
Dairy Industries
Title : Thousands of Specialists for Production
Orig Pub : Myasnaya industriya SSSR, 1957, No 5, 24-26

Abstract : Information concerning the development and
activities of the Moscow Technological Insti-
tute of Meat and Dairy Industries (to the 40th
anniversary of the Great October Socialist
Revolution).

Card 1/1

USCOM-DC-54552

LEPILKIN, A., pprof.

Means of increasing the efficiency of technological processes
in the meat and poultry industry. Mias. ind. SSSR 29 no.1:30-32
'58. (MIRA 11:3)

1. Direktor Moskovskogo tekhnologicheskogo instituta myasnoy i
molochnoy promyshlennosti.
(Meat industry--Congresses)
(Poultry industry--Congresses)

LEPILKIN, A.. prof.; NOZDRIN, S., inzh.

Investigating the heat-insulation properties of the PKhV-1 foam
product in frozen meat storage. Mias.ind.SSSR 30 no.6:47-49
'59. (Cold storage--Insulation) (Resins, Synthetic)
(MIRA 13:4)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000929320006-0

ZOTOV, V.P.; BURTSEV, L.Ye.; GORBATOV, V.M.; FALEYEV, G.A.; KLEMENCHUG,
A.P.; ALEXSEYEV, N.F.; IVANOV, O.Ya.; LEPILKIN, A.N.; GEVORGIAN,
B.A.; KARPOV, V.I.; SINITSYN, K.D.; KOLEDIN, I.G.

(MIRA 13:5)

A.N.Amfimov. Mias.ind.SSSr 31 no.1:58 '60.
(Amfimov, Apollon Nikolaevich, 1894-1959)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000929320006-0"

LEPILKIN, A.N.; NOZDRIN, S.I.

Investigation of thermal and physical properties of foam plastics by
the nonstationary method. Izv. vys. ucheb. zav.; pishch. tekhn. no.5:
122-130 '61. (MIR 15:1)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy
promyshlennosti. Kafedra teplotekhniki.
(Plastics)

LEPILKIN, N.M., inzh.; AKSENOV, V.P., kand. tekhn. nauk; KUKHARCHUK, N.V.,
inzh.; KABYSH, V.L., inzh.; LYALIN, Yu.K., inzh.

Method of laying out quarries for the quarrying of rock products.
(MIRA 18:7)
Gor. zhur. no.6:53-55 Je '65.

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut
ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti UkrSSR, Kiyev.

LEPILKINA, L. A.

"Study of Structural and Mechanical Properties of Moist Materials During Drying." Min Higher Education USSR, Moscow Technological Inst of Food Industry, Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: M-955, 16 Feb 56

LEPILKINA, L.A., kandidat tekhnicheskikh nauk.

Studying structural and mechanical properties of rolled macaroni
dough during the drying process. Trudy MTIPP no.6:128-134 '56.
(MIRA 10:j)
(Macaroni--Drying)

LEPILKINA, L.A.

Reasons for cracks in ceramic specimens in the process of drying,
Stek.i ker. 13 no.8:15-22 Ag '56. (MLRA 9:10)
(Ceramic materials--Drying)

LEPILKINA, L.A.

✓ Effect of humidity on the change in the structure and
chemical properties of gelatin during drying. L.A. Lepilkina.
Colloid J. U.S.S.R. 18, 237-7 (1956) [English translation].
See C.A. 51, 8064.

B.N.R.

PM
mg

Lepikhina, L. A.

Effect of humidity on the change in the structure-mechanical properties of gelatin during its drying. L. A. Lepikhina (Technical Inst. Food Ind., Moscow). Kinetika i massoobmen v tekhnicheskikh i prirodnikh sostoyaniyah (Kinetics and Mass Transfer in Technical and Natural States), No. 10, 302 (1966).—Gelatin was sheared between two half-toe (app., is illustrated). Shear stress τ increased with shear strain γ linearly at 10° and 18° , but at 25° (and less markedly at 30° and 38°) $d\tau/d\gamma$ was greater at higher than at lower γ as long as moisture content was 179-260%. This strain-hardening presumably was due to a change of some H₂O from the free to the bound state. After the removal of stress, residual deformations were noticeable even for small values of τ . The time of relaxation was, e.g., 15 and 60 min. at $\tau = 15$ and 140 g./sq. cm., resp., for the moisture content of 146% at 18° . Electrographs showed that oriented circles of micelles, with H₂O in between, formed around the pores in shrinking gelatin.

J. J. Bikerman

LFH

Lepikhina, L. A.

Distr: 4EM

The changes of the structure-mechanical properties of photographic emulsions during drying. L. A. Lepikhina (Sci. Research Kino Photo Inst., Moscow). Akad. Zhar. 19, 678-83 (1957); cit. C.A. 51, 65054. — The moduli of elasticity, the plastic viscosity, and other mech. properties were detd. for 3 photographic emulsions contg. 110-930% H₂O at 18-25°. Two of the emulsions showed a transformation from elastoplastic to elastic state when the H₂O content decreased below a crit. value; the electron micrographs of the emulsions in the two states were different. I.I.B.

CL

LEPIIKINA, L.A.

Investigating the mechanism of the disintegration of moist
materials during the drying process. Trudy NIKFI no.2:91-100
'58. (MIRA 13:5)

(Drying) (Strength of materials)

LEPILKINA, L.A.

Studying the stress fields in the drying process of gelatin layers. Trudy NIKFI no.2:178-187 '58. (MIRA 13:5)
(Photoelasticity) (Gelatin--Drying)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000929320006-0"

LEPILKINA, L.A.

Investigation of the structural and mechanical properties of peat.
Inzh.-fiz.zhur. no.5:56-61 My '58. (MIRA 12:1)

1. Nauchno-issledovatel'skiy kinoinstitut, g. Moskva.
(Peat)

LEPILKINA, L.A.; POLONSKAYA, F.M.

Effect of the form of moisture bond on the structure of materials.
Inzh.-fiz. zhur. no.10:55-61 O '58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut, g. Moskva.
(Drying)

LEPILKINA, L.A.; POLOMSKAYA, F.M.

Effect of the form of moisture bonds on the structure of
materials. Inzh.-fiz.zhir. no.11:46..52 N '58. (MIRA 12:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy Kinofotoinstitut, g.
Moskva. (Heat--Transmission) (Colloids)

LEPILKINA, L.A.

Infrared spectroscopic study of the forms in which moisture is bound
in gelatin and photographic emulsions. Koll. zhur. 22 no.4:411-417
Jl-Ag '60. (MIRA 13:9)

1. Institut fizicheskoy khimii AN SSSR, Moskva i Moskovskiy tekhnolo-
gicheskiy institut myasnoy promyshlennosti.
(Gelatin--Spectra) (Photographic emulsions)

Report presented at the Conference on heat and transfer,
Winnipeg, June 6, 1951.

1

267. R. J. P. Potassium Concentration of the Blood Plasma and its Relation to the Rate of Glucose Oxidation in Man.

268. L. E. Sperber, The Theory of Convective Heat Transfer in Viscous Fluids.

269. V. A. Tikhonov, The Rate of Viscous Heat Transfer at Points of Liquids.

270. N. G. Sivashin, New Investigations Precede on Heat Transfer at Points of Liquids.

271. L. I. Sosulin, The Theory of Convective Heat Transfer in Viscous Fluids.

272. I. R. Krichevsky, N. P. Krasnaya, L. S. Lebedeva, Diffusion in Gases at High Pressure.

273. F. Dostrovskii, Thermodynamics Stability Region for Liquid Surface.

274. A. V. Arsen'ev, A. J. Hirschfelder, Diffusion and Heat Transfer in Diagonal Chemical Reactions at Low Temperature.

275. A. Ostroumova, Thermodynamic Estimation of Electrical Properties of Insulators.

276. L. M. Kondratenko, Thermodynamic Basis of Heterogeneous Process Inhibition.

277. S. N. Ruz, Thermodynamic Investigation of the Liquid Oxygen Sulfurification Process.

278. G. V. Vasil'ev, I. S. Abrikosov, On the Polarization of the Work Function of Precursors of Alkali Substances.

279. S. Danzig (USSR), Heat or Work Transfer at the Thermodynamic Phase of Points of Convection in the Melting and Freezing Process.

280. A. S. Gladkov, Actual Examples of Points of Convection.

281. V. S. Karpov, Heat and Mass Transfer at Points of Freezing Cells.

282. R. S. Langer, Inertial Convective Instability of Linear Processes in Polymerization.

283. A. F. Seregin, Yu. K. Kondratenko, Radiation-Convective Radiation Relations for Polystyrene Cells, Kinet.

284. V. A. Denysenko, A. M. Uspensky, Experimental Investigation of Heat and Mass Transfer at the Points of Melting and Freezing.

285. G. B. Bush, Investigation of Convective and Conductive Heating of Porous Media by Thermal Power.

ZUBOV, P.I.; LEPILKINA, L.A.

Internal stresses of polymer coatings and methods for measuring them. Lakokras. mat. i ikh prim. no.5:19-27 '61. (MIRA 15:3)

1. Institut fizicheskoy khimii AN SSSR.
(Protective coatings--Measurement) (Polymers)

ZUBOV, P.I.; LEPILKINA, L.A.

Determination of internal stresses during formation of gelatine
films [with summary in English]. Koll. zhur. 23 no.4:418-422
Jl-Ag '61. (MIRA 14:8)

1. Institut fizicheskoy khimii AN SSSR, Moskva.
(Films (Chemistry)) (Strains and stresses)

ZUBOV, P.I.; LEPILKINA, L.A.; GIL'MAN, T.P.; LEYTES, A.Z.

Internal stresses during hardening of polyester resins.
Koll.zhur. 23 no.5:563-567 S-0 '61. (MIRA 14:9)

1. Institut fizicheskoy khimii AN SSSR, Otdel polimerov,
(Resins, Synthetic--Testing) (Esters)

157500

S/030/62/000/003/004/007
B116/B104

AUTHORS: Zubov, P. I., Lepilkina, L. A.

TITLE: Device for investigating polymeric coats

PERIODICAL: Akademiya nauk SSSR. Vestnik, no. 3, 1962, 49-50

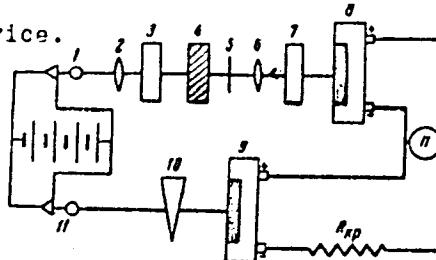
TEXT: A recording device developed at the laboratoriya polymernykh pokrytiy Instituta fizicheskoy khimii Akademii nauk SSSR (Laboratory for Polymeric Coats of the Institute of Physical Chemistry of the Academy of Sciences USSR) is described. It serves to measure internal stresses and adhesion in polymeric coats during their formation and aging. The internal stresses are calculated from the intensity of the transmitted light. The light intensity is automatically recorded by a photocell and an electronic potentiometer. The light from the lamp 1 (Fig.1) passes through the condensing lens 2 and the polarizer 3 to the sample 4, then through slit 5 and object lens 6 to the analyzer 7 (crossed with polarizer 3), and finally to the measuring photocell 8. The compensating photocell 9 is switched in, parallel to 8. 9 is reached by light from the light source 11 (over a system of diaphragms and the neutral wedge 10). The internal stresses on the various planes are measured by automatic shifts (4 mm/min).
Card 1/2

Device for investigating ...

S/030/62/000/C03/004/C07
B116/B104

of the stage with the sample on it. The film is prepared in a chamber at a certain temperature (20-100°C). The temperature in the chamber is electronically controlled. Increase and relaxation of internal stresses during formation of gelatin, polyester, and other films have been studied with the device described. Experiments showed that the internal stresses depended on the conditions of film formation, the concentration of the initial solution, the backing, and the percentage of initiator and accelerator of the polymerization. The adhesion of the polymeric coats is determined from the critical stress which automatically detaches the film from the backing. The maximum critical stress correspond to the adhesion. There are 3 figures and 3 Soviet references.

Fig. 1. Electrooptical diagram of the device.



Card 2/2

15.1350
S/069/62/024/002/004/C08
B101/B110

15.1350

AUTHORS:

Zubov, P. I., Lepilkina, L. A., Gil'man, T. P.

TITLE:

Effect of lubricant and finishing materials on the internal stresses and adhesion properties of polyester coatings

PERIODICAL:

Kolloidn. zhurnal, v. 24, no. 2, 1962, 174-177

TEXT: WH-1 (PN-1) polyester resin films, $\sim 2200 \mu$ thick, were applied to glass parallelepipeds and polymerized at 75°C in the presence of 3% cumene hydroperoxide and 8% cobalt naphthenate dissolved in styrene. One of the glass surfaces was modified with a preparation, and the internal stress was measured optically with a self-recording instrument. Adhesion was determined from the maximum (critical) stress at which the film detached from the glass. The following modifiers were used: (1) Paraffin emulsion consisting of stearin, vaseline, and transformer oil with CO-20 (SO-20) dicyana diamine formaldehyde resin as emulgator: the film detached already after 30 min. (2) AC-1 (AS-1) disapol, a polymerization product from butyl methacrylate and methacrylamide in the presence of dibutyl sebacinate: here, and on unmodified surfaces, at lower internal stress, however, separation set in after 12 hrs. (3) MF-17 (MF-17) urea formaldehyde resins

Card 1/3

Effect of lubricant and ...

S/069/62/024/002/004/008
B101/B110

Showed better results: film adhesion to glass exceeded 12 hrs. (4) The best results were obtained with TB3-3 (PVE-3) polyvinyl acetate emulsion with and without chromolan additions (a cation-active preparation). Internal stress increased after 30-60 min but was moderated by 0.7% chromolan. Then, gradual relaxation followed. The film did not detach from the glass. Tests for the effect of film thickness on its separation from the glass yielded similar results from the different preparations: from glass modified with paraffin emulsion, a film thinner than that from unmodified glass detached, whereas with MF-17 thicker films showed good adhesion. Data are given for glass reinforced plastics with a 50% content of glass fiber: the bending strength (a) and internal stress (b) obtained with paraffin emulsion were 2200 kg/cm² and 10.8 kg/cm², respectively; with MF-17 a = 2880, b = 28.6; with AS-1 a = 2596, b = 3.8, and with PVE-3 containing 0.7% chromolan, a = 3300, b = 2.8. There are 4 figures, 1 table, and 2 Soviet references.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR, Otdel polimerov
(Institute of Physical Chemistry of AS USSR, Department of Polymers), Vsesoyuznyy nauchno-issledovatel'skiy proyektnyy institut ugol'nogo mashinostroyeniya, Moskva (All-Union Scientific Research, Design and Planning Institute of Coal,

Card 2/3

ZUBOV, P.I.; LEPILKINA, L.A.

Apparatus for the study of polymer coatings. Vest. AN SSSR
32 no.3:49-50 Mr '62. (MIRA 15:2)
(Polymers)
(Films (Chemistry))

S/081/62/000/022/086/088
B101/B186

AUTHORS: Zubov, P. I., Lepilkina, L. A.

TITLE: Internal stresses in polymer coatings and methods of measuring them

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 560, abstract 22P540 (Lakokrasochn. materialy i ikh primeneniye, no. 5, 1961, 19 - 27)

TEXT: The fundamental characteristics of a novel apparatus with automatic recording, used to measure the internal stresses (IS) in polymer coatings are outlined. The sign-reversing character of the IS distribution over the cross section and over the surface of the film, as described in published data, is confirmed; this is due to inhomogeneous distribution and evaporation of the solvent. The values of IS arising in the formation of polyester coatings, their adhesion and other physicomechanical properties depend on the modification undergone by the support and on the contents of accelerator and initiator. It was established that films subject to increased stress are less resistant to aging. IS attaining 25 - 30 % of the ultimate tensile strength cause the formation of cracks in

Card 1/2

Internal stresses in polymer...

S/081/62/000/022/086/088
B101/B186

aging. 22 references. [Abstracter's note: Complete translation.]

Card 2/2

LEFILOV, P.

LEFILOV, P. From experiences of the brigade complex on collective farms.
Tr. from the Russian. P.9.

Vol. 11, no. 10, Oct. 1956
KOOFERATIVNO KEMEDELIE
AGRICULTURE
Sofia, Bulgaria

SO: East European Accession, Vol. 6, No. 3, March 1957

GRINBAUM, A.P., inzh.; KREYN, Z.A., inzh.; LEXILOV, V.A., inzh.

Stability of freight and passenger ships on inland waterways.
Rech. transp. 17 no.8:48-52 Ag '58. (MIRA 11:10)
(Stability of ships)

GRINBAUM, A.F., inzh.; KREYN, Z.A., inzh.; LEPILOV, V.A., inzh.

Using gauffered plates on pontoons under cranes with a load
capacity of five tons. Sudostroenie 25 no.3:56-58 Mr '59.
(MIRA 12:5)

(Pontoon) (Cranes, derricks, etc.)

LEPILOV, V. I., MOSKALEV, V. I., FLYAGIN, V. B., SHATET, T., BUDAGOV, YU. A.,
DZHELEPOV, V. P., DZHAKOV, N. I., IVANOV, N. I.,

"The One-Meter Propane Bubble Chamber in Magnetic Field"

paper presented at the Intl Conference on High Energy Physics, Rochester, N. Y.
and/or Berkly California, 25 Aug - 16 Sep 1960.

ACCESSION NR: AP4018366

S/0120/64/000/001/0061/0063

CREATOR: Bogomolov, A.V.; Budagov, Yu. A.; Vasilenko, A.T.; Dzhelapov, V. V.;
D'yakov, N.I.; Ivanov, V.G.; Kladnitskiy, V.S.; Lepilov, V.I.; Lomakin, Yu. F.;
Moskalev, V.I.; Flyagin, V.B.; Shetet, T.I.; Shlyapnikov, P.V.

TITLE: Meter-long bubble chamber in a magnetic field

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1964, 61-68

TOPIC TAGS: bubble chamber, meter long bubble chamber, 10 Gev particle
beam, bubble chamber in magnetic field, electromagnet bubble chamber

ABSTRACT: A bubble chamber with a sensitive volume of $1 \times 0.5 \times 0.38 \text{ m}^3$ is
described. The chamber is intended for studying the particle beams up to 10 Gev
obtained from the OIYai proton synchrotron. The chamber design was described
earlier (Yu. A. Budagov, et al. International Conference on High-Energy
Acceleration and Instrumentation, Berkeley, 1960); more details are supplied in
the present article. Propane or some other liquid suitable for a particular
experiment may serve as a working fluid. The chamber is placed in a 17-kilo-
gauss magnetic field derived from a 2,200-kw electromagnet. The error in a

CC-1 1/2

ACCESSION NR: AP4018366

5-Gev/s-pulse measurement, evaluated from multiple scattering in propane, is $\pm 3.2\%$. In 1963, the chamber was installed at the output of the magnetic circuit of a π^- -meson beam whose energy lies between 4 and 7 Gev. "The authors consider it their duty to thank V. N. Sorgiyenko, N. I. Frolov, K. A. Baycher, and the personnel of the experimental shop for their help in building the outfit. The authors are thankful to V. I. Veksler, N. I. Pavlov, and I. V. Chuvilo for their assistance in constructing the magnetic circuit of the π^- -meson beam. We are indebted to A. S. Strel'tsov, B. Ye. Gritskov, B. V. Rozhdestvenskiy, and L. N. Fedulov for designing and building the magnet. The authors are deeply grateful to M. A. Dubkov, and S. P. Zunin who spent much effort and skill in stages of constructing and aligning the outfit." Orig. art. has: 8 figures.

ASSOCIATION: Ob'yedinenny*y institut yaderny*kh issledovan*y (Joint Institute of Nuclear Studies)

SUBMITTED: 22Mar63

DATE ACQ: 18Mar64

ENCL: 00

SUB CODE: NS

NO REF SOV: 003

OTHER: 002

Card 2/2

LIPILLOVA, A.S. (Ordzhonikidze)

Clinical aspects of Ixodes lagubris bites. Klin.med., 33
no.11:80-82 N '55. (MLRA 9:7)
(ARACHNIDISM,
Ixodes lagubris bites)

KALUSHIN, Aleksey Pavlovich; LEPIN, A.E., red.; TIKHONOVA, I.M.,
tekhn. red.

[In order to guarantee quality] Chtoby kachestvo bylo ga-
rantirovano. Leningrad, Lenizdat, 1962. 89 p.
(MIRA 15:9)

1. Nachal'nik Leningradskoy inspekcii Gosudarstvennogo
arkhitekturno-stroitel'nogo kontrolya (for Kalushin).
(Leningrad--Construction industry--Quality control)

LEPIN, A. E.

ZAGORSKIY, Nikolay Stanislavovich; LEPIN, A.E., redaktor; LEVONEVSKAYA, L.G.,
tekhnicheskiy redaktor,

[Mechanization of forging and stamping work] Mekhanizatsiya kusnechno-
shtampovochnykh rabot. [Leningrad] Lenizdat, 1956. 47 p.

(MLRA 10:4)

(Forging)

LEPIN, A.E.

BALAGUROV, Vasilii Vasil'yevich; LEPIN, A.E., redaktor; RODCHENKO, N.I.,
tekhnicheskiy redaktor.

[Here the fate of the program is decided; a foreman's notes] Zdes'
reshaetsia sud'ba programmy; sametki mastera. [Leningrad] Lenizdat,
1957, 55 p.
(MIRA 10:4)

1. Starshiy master Leningradskogo metallicheskogo zavoda (for Balagu-
rov) (Steam turbines)

L.E.PIN, H.I.

SHALYUKHIN, Aleksandr Ivanovich, slesar'; LEPIN, A.E., redaktor; RODCHENKO,
H.I., tekhnicheskiy redaktor.

[My experience in the mechanization of bench and instrument work]
Moi opyt mekhanizatsii slesarno-instrumental'nykh rabot [Leningrad]
Lenizdat, 1957. 59 p. (MLRA 10:4)

1. Kirovskiy zavod (or Shalyukhin)
(Machine-shop practice)

A. E. Lepin, A.E.

AUTHOR: Ioffe, B.D.

TITLE: For Technical Progress in Machine Tool Building (Za tekhnicheskiy progress v stankostroyenii)

PUB. DATA: Lenizdat, Leningrad 1957, 106 pp. 5,000 copies

ORIG. AG.: None given

EDITOR: Editor: Lepin, A.E.; Tech. Ed.: Smirnov, P.S.

PURPOSE: This book is intended for skilled workers, designers, technologists and other engineering and technical personnel in machine-and instrument-building enterprises.

COVERAGE: The book discusses the achievements and experience of the workers collective of the Leningrad Machine Tool Plant im. Ya. M. Sverdlov. The work of the collective was centered on the development of new machine tools of more

Card 1/4

For Technical Progress in Machine Tool Building (Cont.)

efficient design. For example, in the year 1956, the plant produced 22 different types of machine tools, with an average of 2374 parts for each type. A unification effort resulted in standardization of 84% of all sub-assemblies and components used. A report on the plant's experience in developing and introducing modern advanced technology is included. The examples of improved technological processes are described as useful for other metalworking enterprises. There are no references.

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For Technical Progress in Machine Tool Building (Cont.)

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For Technical Progress in Machine Tool Building (Cont.)

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AVAILABLE: Library of Congress Call No. TJ 1185.I6
Card 4/4

SOSKIN, Lev Mikhaylovich; TOKARSKIY, Natan Solomonovich; LEPIN, A.E., red.;
RODCHENKO, N.I., tekhn. red.

[Drop forging of parts from molten metal] Shtampovka detalei iz
zhidkogo metalla. [Leningrad] Lenizdat, 1957. 122 p. (MIRA 11:7)
(Forging)

LEPIN, A.E.

BOCHIN, Boris Vasil'yevich; GERST, Vadim Mikhaylovich; LEPIN, A.E., red.
LEVONEVSKAYA, L.G., tekhn.red.

[Leningrad, city of technical progress] Leningrad- gorod tekhnicheskogo progreessa. [Leningrad] Lenizdat, 1957. 144 p. (MIRA 11:5)
(Leningrad--Industries)

KAMNEV, P.V.; LIPIN, A.R., redaktor; LEVONEVSKAYA, L.G., tekhnicheskiy
redaktor

[Progressive interplant technology: on the 250th anniversary of
Leningrada. [Leningrad] Lenizdat, 1957. 146 p. (MLRA 10:9)
(Machine-shop practice)]

MAKAROV, Vladimir Ivanovich, SPIVAKOV, Mikhail Semenovich, LEPIN, A.E. red.;
SMIRNOV, P.S., tekhn.red.

[Operation of equipment used for installation work and transportation
in apartment house construction]. Eksploatatsiya montazhno-transportnogo
oborudovaniya v zhilishchnom stroitel'stve. [Leningrad] Lenizdat, 1957.
209 p. (MIRA 11:9)

(Building machinery)

KARPOV, Val'ter Valentinovich; LEPIN, A.E., red.; SMIRNOV, P.S., tekhn.red.

[Combined laying of walls and thin-spread plastering] Sovmestchennye
kladki sten s tonkosloinym oshtukaturivaniem. Lenizdat, 1958. 97 p.
(MIRA 12:4)

(Bricklaying) (Plastering)

TYMINSKIY, Yuriy Georgiyevich; LEPIN, A.M., red.; LEVONEVSKAYA, L.G., tekhn.
red.

[Progressive work methods for milling machine operators] Perekovye
metody raboty frezerovshchikov. [Leningrad] Lenizdat, 1958. 138 p.
(Milling machines) (MIRA 11:9)

KOTLYAROV, Vasiliy Ivanovich; LEPIN, A.E., red.; SMIRNOV, P.S., tekhn.red.

[Manufacture machines on production lines] Proizvodstvo mashin -
na potok. Leningrad, Lenizdat, 1959. 23 p. (MIRA 12:11)

1. Direktor zavoda "Krasnyy metallist" (for Kotlyarov).
(Machinery industry)

VISMONT, Otto Vikent'yevich; IEPIN, A.E., red.; SMIRNOV, P.S.,
tekhn.red.

[Advantage of the modernization of equipment] Chto daet
modernizatsiya oborudovaniia. Leningrad, Lenizdat, 1959.
26 p. (MIRA 12:11)

1. Glavnnyy mekhanik Leningradskogo sovnarkhoza (for Vismont).
(Technological innovations)

ORLOVSKIY, Emmanuil Il'ich; LEPIN, A.E., red.; LEVONEVSKAYA, L.G.,
tekhn.red.

[Synthetic materials in the manufacture of consumers' goods]
Sinteticheskie materialy v proizvodstve tovarov shirokogo
potrebleniia. Leningrad, Lenizdat, 1959. 138 p. (MIRA 13:2)
(Synthetic products) (Russia--Manufactures)

TOKAREV, P.D.; LEPIN, A.E., red.; SMIRNOV, P.S., tekhn.red.

[Repair and use of television sets] Eksploatatsiya i remont
televizorov. Leningrad, Lenizdat, 1959. 190 p. (MIRA 13:1)
(Television--Handbooks, manuals, etc.)

TKACHEV, Semen Ivanovich; LEPIN, A.E., red.; ONOSHO, N.G., tekhn.red.

[Speed up the construction of high-quality buildings] Stroit'
bystro i dobrotno! Leningrad, Lenizdat, 1960. 31 p.

(MIRA 13:11)

1. Brigadir kompleksnoy brigady 4-go domostroitel'nogo kombinata
Leningrada (for Tkachev).

(Leningrad--Construction industry)

NIKITIN, Semen Yerofeyevich; LEPIN, A.E., red.; LEVONEVSKAYA, L.G.,
tekhn.red.

[To the shortest workday] Na samyi korotkii rabochii den'.
Leningrad, Lenizdat, 1960. 39 p.

(MIRA 13:11)

(Moscow--Hours of labor)
(Leningrad--Hours of labor)

ZAKHAR'IN, Aleksey Ivanovich; LEPIN, A.B., red.; ONOSHKO, N.G., tekhn.red.

[Benefits of production mechanization] Chto daet mekhanizatsii
proizvodstva. Leningrad, Lenizdat, 1960. 50 p. (MIRA 13:7)

1. Glavnnyy inzh. Kirovskogo zavoda (for Zakhar'in).
(Leningrad--Machinery industry--Technological innovations)
(Automation) (Socialist competition)

STRZHALKOVSKIY, Yevgeniy Genrikhovich; LEPIN, A.E., red.; LEVONEVSKAYA, L.G., tekhn.red.

[New methods for organizing the industrialized housing construction; housing construction combines in Leningrad] Novye metody organizatsii industrial'nogo domostroeniis; domostroitel'nye kombinaty Leningrada. Leningrad, Lenizdat, 1960.
53 p. (MIRA 13:6)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Strzhalkovskiy).
(Leningrad--Precast concrete construction)
(Apartment houses)

VYACHESLAVOV, Petr Mikhaylovich; LEPIN, A.E., red.; TIKHONOVA, I.M.,
tekhn.red.

[Principles of electroplating] Osnovy gal'vanotekhniki. Lenin-
grad, Lenizdat, 1960. 242 p. (MIRA 13:6)
(Electroplating)

AZAROV, A.S., dotsent, kand.tekhn.nauk; BULOVSKIY, P.I., doktor tekhn.nauk,
prof., nauchnyy red.; LEPIN, A.E., red.; POL'SKAYA, R.G., tekhn.red.

[Devices for multiple machining of parts; experience of some Lenin-
grad plants] Prispособления для групповой обработки деталей;
опыт некоторых ленинградских заводов. Leningrad, Lenizdat,
1960. 254 p. (MIRA 14:6)

(Machine tools—Attachments)

KONSTANTINOV, Oleg Yakovlevich; LEPIN, A.E., red.; LEVONEVSKAYA, L.G.,
tekhn. red.

[Machining parts on surface-grinding machines] Obrabotka detalei
na ploskoshlifoval'nykh stankakh. Leningrad, Lenizdat, 1961.
191 p. (Grinding and polishing) (Grinding machines) (MIRA 14:9)

GERST, Vadim Mikhaylovich; LEPIN, A.E., red.; ONOSHEKO, I.G., tekhn. red.

[Use production line methods in manufacture] Proizvodstvo - na
potok. Leningrad, Lenizdat, 1961. 79 p. (MIRA 14:11)
(Assembly-line methods)

SAPOZHNIKOV, Mikhail Mikhaylovich; MAKAROV, V.I., red.; LEPIN, A.E.,
red.; PRESNOVA, V.A., tekhn.red.

[Handbook of sanitary engineering] Pamiatka santechnika. Pod
obshchei red. V.I.Makarova. Leningrad, Lenizdat, 1961. 55 p.
(MIRA 15:2)
(Sanitary engineering)

BOT, Kirill Aleksandrovich; MAKAROV, V.I., red.; LEPIN, A.E., red.;
KOTLYAKOVA, O.I., tekhn. red.

[Handbook for the roofer] Pamiatka krovel'shchika. Pod obshchei
red. V.I.Makarova. Leningrad, Lenizdat, 1961. 58 p.
(MIRA 15:1)
(Roofing--Handbooks, manuals, etc.)

BOT, Kirill Aleksandrovich; MAKAROV, V.I., red.; LEPIN, A.E., red.;
LEVONEVSKAYA, L.G., tekhn.red.

[Painter's handbook] Pamiatka maliara. Pod obshchei red.
V.I.Makarova. Leningrad, Lenizdat, 1961. 65 p.
(MIRA 15:2)
(Painting, Industrial)

BRUSSE, Boris Arturovich; LEPIN, A.E., red.; OJOSHKO, N.G., tekhn.
red.

[For the best products in the world!] Za luchshuiu v mire pro-
Leningrad, Lenizdat, 1961. 78 p. (MIRA 15:5)

1. Nachal'nik inspeksii po kachestvu Leningradskogo sovnar-
khoza (for Brusev).

(Leningrad—Machinery industry—Quality control)
(Leningrad—Instrument industry—Quality control)

ANTONOV, V.A.; MAMIOFA, I.E.; LEPIN, A.E., red.; SHERG USHENKO, T.A.,
tekhn. red.

[Creators of the new and progressive; Leningrad inventors and
efficiency promoters in the effort for technological progress]
Tvortsy novogo, progressivnogo; leningradskie izobretateli i
ratsionalizatory v bor'be za tekhnicheskii progress. Lenin-
grad, Lenizdat, 1962. 84 p. (Resheniya XXII s"ezda KPSS - v
zhizn') (MIRA 15:9)

(Leningrad--Technological innovations)

(Leningrad--Socialist competition)

CHUGUNOV, Sergey Yakovlevich; LEPIN, A.E., red.; PRESNOVA, V.A.,
tekhn. red.

[We build our future today] Budushchee rozhdaetsia segodnia.
Leningrad, Lenizdat, 1962. 46 p. (MIRA 16:2)

1. Glavnnyy inzhener Leningradskogo staleprokatnogo zavoda
(for Chugunov).
(Leningrad--Machinery industry--Technological innovations)

STEPANENKO, Aleksey Stepanovich; LEPIN, A.E., red.; PRESNOVA,
V.A., tekhn. red.

[Progressive grinding methods] Progressivnye metody shli-
fovaniia. Leningrad, Lenizdat, 1963. 57 p.
(MIRA 17:1)

1. Shlifovshchik stankostroitel'nogo zavoda imeni Sverdlova,
Leningrad (for Stepanenko).
(Grinding and polishing)

PETROV, Viktor Mikhaylovich, montazhnik; LEPIN, A.E., red.;
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